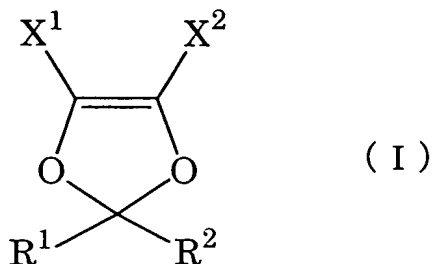


## ABSTRACT

This invention provides a cyclic ether copolymer such as a cyclic ether copolymer excellent in solubility in  
5 solvents and easy to form uniform thin films therefrom. The present invention relates to a cyclic ether copolymer obtained from a 1,3-dioxole ring structure-containing compound represented by the following general formula (I) and an ethylenically unsaturated monomer:



(wherein  $R^1$  and  $R^2$  are the same or different and each represents F, H, Cl or a perfluoroalkyl group containing 1  
15 to 5 carbon atoms and  $X^1$  and  $X^2$  are the same or different and each represents F, H, Cl or  $-OR^3$ , and  $R^3$  represents a perfluoroalkyl group containing 1 to 5 carbon atoms, provided that at least one of  $R^1$  and  $R^2$  is F or a perfluoroalkyl group containing 1 to 5 carbon atoms), which  
20 copolymer has a glass transition point of 100 to 135°C and an intrinsic viscosity of 0.01 to 0.4 dl/g as determined at 35°C in perfluoro-2-butyltetrahydrofuran.